

DS-2DF8C448I5XG1-ELWY 4MP 48 × DarkFighter IR Network Speed Dome























Hikvision has been dedicated to develop products with security since established.

Hikvision always follows security by design principle and has adopted many methods of security technologies into our product development lifecycle, including terminal security, data security, application security, network security, and privacy protection. In the meantime, the security technologies used by Hikvision are all in compliance with local applicable laws and safety regulations. These security measures could enhance product's cyber security defense capability and protect your devices as well as your data from malicious cyber attacks.

- 1/1.2" Progressive Scan CMOS
- High quality imaging with 4 MP resolution
- Excellent low-light performance via DarkFighter 2.0 technology
- Clear imaging against strong back light due to 150 dB AWDR technology
- 48 × optical zoom and 16 × digital zoom provide close up views over expansive areas
- Expansive night view with up to 500 m laser distance
- Water and dust resistant (IP67) and vandal proof (IK10) excluding glass window
- Supports face capture to detect, capture, grade, and select faces in motion
- Supports road traffic to detect vehicles
- Smart Pan-Tilt Correction



Specification

Camera				
Image Sensor	1/1.2" progressive scan CMOS			
NAire Illumaireation	Color: 0.0005 Lux @ (F1.6, AGC ON), B/W: 0.0001 Lux @ (F1.6, AGC ON), 0 Lux with			
Min. Illumination	Laser			
Shutter Speed	1/1 s to 1/30,000 s			
Slow Shutter	Yes			
Day & Night	IR cut filter			
Zoom	48x optical, 16x digital			
Max. Resolution	2688 × 1520			
Lens				
Focus	Auto, semi-auto, manual, rapid focus			
Focal Length	6.0 mm to 288 mm, 48× Optical			
Zoom Speed	Approx. 7.8 s (optical, wide-tele)			
	Horizontal field of view: 61.0° to 1.7° (wide-tele),			
FOV	Vertical field of view: 35.9° to 1.0° (wide-tele),			
	Diagonal field of view: 68.5° to 1.9° (wide-tele)			
Aperture	Max. F1.6			
Illuminator				
Supplement Light Type	Laser			
Supplement Light Range	Laser Distance: up to 500 m			
Smart Supplement Light	Yes			
PTZ				
Movement Range (Pan)	360°, Smart Pan-Tilt Correction			
Movement Range (Tilt)	-20° to 90° (auto flip), Smart Pan-Tilt Correction			
Pan Speed	Pan speed: configurable from 0.1° to 210°/s; preset speed: 280°/s			
Tilt Speed	Tilt speed: configurable from 0.1° to 150°/s, preset speed 250°/s			
Proportional Pan	Yes			
Presets	300			
Patrol Scan	8 patrols, up to 32 presets for each patrol			
Pattern Scan	4 pattern scans, record time over 10 minutes for each scan			
Power-off Memory	Yes			
,	Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan,			
Park Action	panorama scan			
3D Positioning	Yes			
PTZ Status Display	Yes			
Preset Freezing	Yes			
	Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan,			
Scheduled Task	panorama scan, dome reboot, dome adjust, aux output			
Video				
	50 Hz: 50 fps (2688 × 1520, 2560 × 1440), 100 fps (1920 × 1080, 1280 × 960, 1280 ×			
	720);			
Main Stream	60 Hz: 60 fps (2688 × 1520, 2560 × 1440), 120 fps (1920 × 1080, 1280 × 960, 1280 ×			
	720)			
	*High frame rate is supported under monitoring mode only.			



Sub-Stream	50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288)			
	60 Hz: 30 fps (704 × 480, 640 × 480, 352 × 240)			
Third Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288)			
	60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)			
Vida - Canananai - n	Main stream: H.265+/H.265/H.264+/H.264			
Video Compression	Sub-stream: H.265/H.264/MJPEG			
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Video Bit Rate	32 Kbps to 16384 Kbps			
H.264 Type	Baseline Profile/Main Profile/High Profile			
H.265 Type	Main Profile			
Scalable Video Coding (SVC)	H.264 and H.265 encoding			
Region of Interest (ROI)	8 fixed regions for each stream			
Target Cropping	No			
Audio				
Audio Compression	G.711alaw, G.711ulaw, G.722.1, G.726, MP2L2, PCM			
Audio Bit Rate	64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)			
Audio Sampling Rate	MP2L2: 16kHz, 32kHz, 48kHzAAC-LC: 16kHz, 32kHz, 48kHzPCM: 8kHz, 16kHz, 32kHz,			
Addio Jumping Nate	48kHzMP3: 8kHz, 16KHz, 32KHz, 48KHz			
Environment Noise Filtering	Yes			
Network				
Smooth Streaming	Yes			
	Password protection,complicated password,HTTPS encryption,802.1X authentication			
	(EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest			
Security	authentication for HTTP/HTTPS,WSSE and digest authentication for Open Network			
	Video Interface, RTP/RTSP over HTTPS, control timeout settings, security audit log, TLS			
	1.3,host authentication (MAC address),TPM 2.0 (FIPS 140-2 level 2)			
Network Storage	NAS (NFS, SMB/ CIFS), ANR			
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP,			
FIOLOCOIS	RTCP, RTP, TCP/IP, DHCP, PPPoE, UDP, IGMP, ICMP, Bonjour			
	ISUP, ISAPI, Hikvision SDK, Open Network Video Interface (Profile S, Profile G, Profile T,			
API	Profile M), OTAP			
Simultaneous Live View	Up to 20 channels			
User/Host	Up to 32 users. 3 levels: Administrator, Operator and User			
Client	HikCentral, iVMS-4200, Hik-Connect			
Web Browser	IE11, Chrome 57.0+, Firefox 52.0+, Safari 11+			
Image	TELL, CHIOTIC 37.01, FIRCION 32.01, Salah 111			
Image Parameters Switch	Yes			
illiage Parameters Switch				
Image Settings	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser			
Day/Night Switch	Day, night, auto, scheduled-switch			
Image Enhancement	BLC, HLC, 3D DNR			
Wide Dynamic Range (WDR)	150 dB WDR			
Defog	Optical defog			
Image Stabilization	OIS			
Regional Exposure	Yes			
Regional Focus	Yes			



Privacy Mask	Up to 24 masks, polygon region, mosaic mask, mask color configurable			
SNR	≥ 52 dB			
Supplement Detection				
Gyroscope	Yes			
Satellite Positioning	No			
Compass	No			
Interface				
Reset	Yes			
Ethernet Interface	1 RJ45 10M/100M self-adaptive Ethernet port			
On-board Storage	Built-in memory card slot, support MicroSD/MicroSDHC/MicroSDXC, up to 1 TB			
Alarm	7 inputs, 2 outputs			
Audio	1 input (line in), max. input amplitude: 2-2.4 vpp, input impedance: 1 K Ω ± 10%; 1			
Audio	output (line out), line level, output impedance: 600 $\boldsymbol{\Omega}$			
Video Output	1.0V[p-p]/75Ω, PAL, NTSC, BNC connector			
RS-485	Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive			
Event				
Basic Event	Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error), alarm input and output, vandal-proof alam, audio exception detection, unattended baggage detection, object removal detection			
Linkage	Upload to FTP/NAS/memory card,notify surveillance center,send email,trigger recording,and PTZ actions (such as preset, patrol scan, pattern scan)			
Deep Learning Function				
Perimeter Protection	Line crossing detection, region entrance detection, intrusion detection, region exiting detection			
Multi-Target-Type Detection	Supports simultaneous detection and capture of human body, face and vehicle, Gets 7 face features, 14 human body features and 8 vehicle features			
Face Capture	Detects up to 30 faces simultaneously, Uploads face with background and closed-up face pictures, Supports detecting, tracking, capturing, grading, selecting of face in motion, and outputs the best face picture			
Face Comparison	Up to 10 face libraries. 30000 faces for each library. 150000 faces in total, Recognizes face identity via face modeling, grading and comparing to those in face library, Supports face library encryption			



	Smart Function:		
	Support license plate recognition of vehicles and motorcycles (only in checkpoint		
	scenario)		
	Support vehicle attribute detection, including vehicle type, color, brand, driving		
	direction, etc.		
	Support vehicle and non-vehicle counting		
	Blocklist and allowlist: up to 10,000 records		
D 17 (C 1)/1:1	LPR Countries/Regions:		
Road Traffic and Vehicle	4 areas (Europe, Middle East, Asia-Pacific, Africa) and more than 124 countries/regions		
Detection	Accuracy (Under recommended installation and lighting conditions):		
	License plate recognition rate ≥98%		
	Capture rate ≥99%		
	Driving direction accuracy rate ≥98%		
	Vehicle Capture Speed:		
	Front installation in checkpoint scenario: up to 120 km/h		
	Side installation: up to 80 km/h		
	Capture Mode: License Plate and Vehicle Mode, Vehicle Priority Mode		
Linkage and Tracking			
Smart Tracking	Manual tracking, auto-tracking 3.0		
	Support person arming. When the device detects the armed face or human body in the		
	monitoring scene, it triggers alarms, and tracks and captures the target. During the		
Object Tracking	tracking, the target location and other related information are uploaded. Support		
	vehicle arming. When the device detects the armed vehicles in the monitoring scene, it		
	triggers alarms, and tracks and captures the target. During the tracking, the target location and other related information are uploaded.		
General			
Vandal-proof Alarm	No		
Heater	Yes		
Wiper	Yes. Rain-sensing auto control		
De-icing	No		
Demist	Yes		
General Function	Mirror, password protection, watermark, IP address filter		
Power	36 VDC (Max. 60 W, including max. 12 W for IR and max. 8 W for heater), PoE 802.3bt, type3, class6 (Max. 60 W, including max. 12 W for IR and max. 8 W for heater)		
Operating Condition	Temperature: -40°C to 70°C (-40°F to 158°F), Humidity: ≤ 95%		
Dimension	Ø 267 mm × 430 mm (Ø 10.51" × 16.93")		
Weight	Approx. 9.6 kg (21.16 lb.)		
	33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian,		
Language	Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish,		
	Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese,		
	Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian		
Approval			
	CE-EMC (EN 55032: 2015, EN 61000-3-2: 2019, EN 61000-3-3: 2013, EN 50130-4: 2011		
ENAC	+A1: 2014);		
EMC	RCM (AS/NZS CISPR 32: 2015);		
	IC VoC (ICES-003: Issue 6, 2019); KC (KN 32: 2015, KN 35: 2015)		



Safety	CB (IEC 62368-1:2014+A11); CE-LVD (EN 62368-1:2014+A11:2017), BIS (IS 13252(Part 1):2010+A1:2013+A2:2015); LOA (SANS IEC60950-1)		
Environment	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)		
Anti-Corrosion Protection	NEMA 4X		
Protection	IP67 Standard, Lightning Protection, Surge Protection and Voltage Transient Protection, ±6kV Line to Gnd, ±3kV Line to Line, IEC61000-4-5, IK10		

DORI

The DORI (detect, observe, recognize, identify) distance gives the general idea of the camera ability to distinguish persons or objects within its field of view.

It is calculated based on the camera sensor specification and the criteria given by EN 62676-4: 2015.

DORI	Detect	Observe	Recognize	Identify
Definition	25 px/m	63 px/m	125 px/m	250 px/m
Distance (Tele)	3972.4 (13032.8 ft)	1576.4m (5171.9 ft)	794.5 m (2606.6 ft)	397.2m (1303.2 ft)

Typical Application

Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

DS-2DF8C448I5XG1-ELW and has NO SPECIFIC PROTECTION. DS-2DF8C448I5XG1-ELWY has MODERATE PROTECTION.

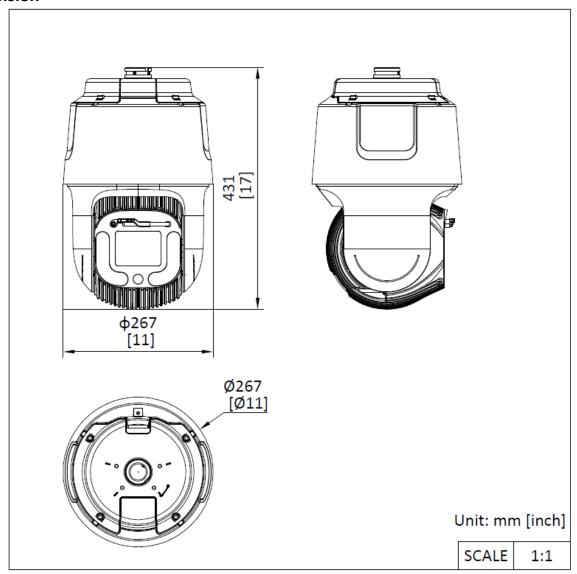
Level Description		
	Hikvision products at this level are equipped for use in	
Top-level protection	areas where professional anti-corrosion protection is a	
Top-level protection	must. Typical application scenarios include coastlines,	
	docks, chemical plants, and more.	
	Hikvision products at this level are equipped for use in	
	areas with moderate anti-corrosion demands. Typical	
Moderate protection	application scenarios include coastal areas about 2	
	kilometers (1.24 miles) away from coastlines, as well as	
	areas affected by acid rain.	
No anasifia protostian	Hikvision products at this level are equipped for use in	
No specific protection	areas where no specific anti-corrosion protection is needed.	

Available Model

DS-2DF8C448I5XG1-ELWY



Dimension



Accessory

Optional

DS-4603ZJ-PAAC Wall Mount Bracket In/Outdoor for PTZ Camera	DS-4612ZJ-PAAC	DS-1684ZJ-P-Y	DS-1673ZJ-P-Y	DS-1276ZJ-P-Y
	Pendant Mount	For Pendant Mount	For Pendant Mount	For Corner mount

See Far, Go Further



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